

ABSTRACT

A multi-mode bi-directional communications device including a diplexer having a high-pass filter, a first low-pass filter, and a second low-pass filter). Downstream processing circuitry is coupled to the high-pass filter, and upstream processing circuitry is selectively coupled to the first low-pass filter and the second low-pass filter in response to an indicium of a desired spectral region. 1. The downstream processing circuitry comprising a tuner, a demodulator, a first SAW filter adapted for selective coupling between the tuner and the demodulator, and a second SAW filter adapted for selective coupling between the tuner and the demodulator.

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